



ABSTRACT OF THE DISCLOSURE

The present invention provides a monoclonal anti-idiotype antibody 11D10 that elicits an immune response against a specific epitope of a high molecular weight mucin of 5 human milk fat globule (HMFG) and a hybridoma that produces 11D10. The hybridoma that produces 11D10 was selected by specific procedures. 11D10 induces an immunological response to HMFG in mice, rabbits, monkeys and patients with advanced HMFG-associated tumors. This invention provides compositions derived from polynucleotide sequences 10 encoding the variable light and/or variable heavy regions of monoclonal anti-idiotype antibody 11D10, as well as polypeptides encoded thereby. The invention also provides compositions which can be used in the detection or treatment of HMFG - associated tumors.

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